

Chapter 10: Geometry

Class Work (Pg 190)

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|------------|------------------|------------------|-----------|
| 1. (a) C | (b) S | (c) S | (d) C |
| 2. (a) Ray | (b) Line segment | (c) Curve | (d) Line |
| (e) Ray | (f) Line | (g) Line segment | (h) Curve |

Class Work (Pg 192)

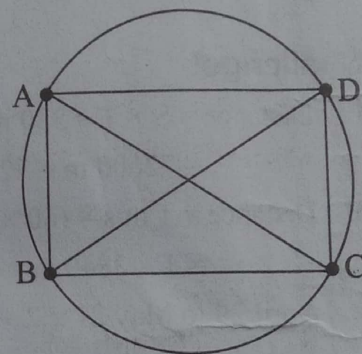
- Simple closed figures are (a), (b), (d), (f), (g), (h), (i), (j), (l)
- Polygons are (a), (f), (g), (h), (l)

Class Work (Pg 194)

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|---------------------------|------------------------|--------------------|
| 2. (a) Vertices – P,Q,R,S | Sides – PQ, QR, RS, SP | Diagonals – PR, SQ |
| (b) Vertices – E,F,G,D | Sides – EF, FG, GD, DE | Diagonals – EG, DF |
| (c) Vertices – L,M,N,O | Sides – LM, MN, NO, OL | Diagonals – OM, LN |

Exercise 10

- (a) Radii – OA, OB, OC, OG (b) Chords – AB, CD
(c) Diameter – AB (d) Points in the interior – E, F, O
- Six chords – AB, BC, CD, DA, AC, BD
- If two circles are equal, their radius and diameter are equal
- (a) $d = 5 \times 2 = 10$ cm (b) $d = 4 \times 2 = 8$ cm
(c) $d = 12 \times 2 = 24$ cm (d) $d = 7 \times 2 = 14$ cm
- (a) $r = \frac{8}{2} = 4$ cm (b) $r = \frac{10}{2} = 5$ cm (c) $r = \frac{18}{2} = 9$ cm (d) $r = \frac{16}{2} = 8$ cm



Challenge!

AB = Chord, BD = Diameter

Chapter Test

- (a) 3 LS, 1 R, 1 C (b) 3 LS, 1 C (c) 4 LS, 1 R, 1 C (d) 4 LS, 4 R, 4 C
- (a) Centre O (b) Radii = OC = OB = OA (c) Diameter = AC (d) Chord = PQ
- Diameter = 2×10 cm = 20 cm
- Line segments in word FATE = 12
- Rita drew a hexagon, a square and a triangle
- (a) 8. (c) 9. (c) 10. (c)

Challenge!

- Number of triangles = 12
- 1 rectangle and 2 triangles, 1 pentagon and 1 triangle, 1 hexagon

